73	Providing and laying Hassan Green granite flooring for staircase, treads and rises using pre polished 20 mm thick water cut green Granite slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing , cutting 3 line grooves not more than 2 mm wide for antiskidding, curing etc.,complete and as per the directions of the Engineer-in-charge of the work . (FIRST FLOOR)	Sqm	22.05	4307.58
74	Providing and laying Hassan Green granite flooring for staircase, treads and rises using pre polished 20 mm thick water cut green Granite slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing , cutting 3 line grooves not more than 2 mm wide for antiskidding, curing etc.,complete and as per the directions of the Engineer-in-charge of the work . (SECOND FLOOR)	Sqm	22.05	4309.20
75	Providing and fixing Vetrified glazed tiles of approved make quality & colour of size 600x 600x 10 mm thick fixed on existing flooring withspecial adhesive for flooring ,skirting ad jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers at required interval and removing stains etc complete as per specification and as per the directions of the Engineer-in-charge of the work (GROUND FLOOR)	Sqm	483.65	1154.52
76	Providing and fixing Vetrified glazed tiles of approved make quality & colour of size 600x 600x 10 mm thick fixed on existing flooring withspecial adhesive for flooring ,skirting ad jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers at required interval and removing stains etc complete as per specification and as per the directions of the Engineer-in-charge of the work (FIRST FLOOR)	Sqm	589.00	1156.14
77	Providing and fixing Vetrified glazed tiles of approved make quality & colour of size 600x 600x 10 mm thick fixed on existing flooring withspecial adhesive for flooring ,skirting ad jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers at required interval and removing stains etc complete as per specification and as per the directions of the Engineer-in-charge of the work (SECOND FLOOR)	Sqm	623.05	1157.76

78	Providing and fixing Vetrified glazed tiles of approved make quality & colour of size 600x 600x 10 mm thick fixed on existing flooring withspecial adhesive for flooring ,skirting ad jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers at required interval and removing stains etc complete as per specification and as per the directions of the Engineer-in-charge of the work (HEADOOM)	Sqm	9.36	1159.38
79	Providing Ceramic tiles of size 30x30cms 6mm thick of approved make ,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications and as per the directions of the Engineer-in-charge of the work . (GROUND FLOOR)	Sqm	23.54	1270.08
80	Providing Ceramic tiles of size 30x30cms 6mm thick of approved make ,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. and as per the directions of the Engineer-in-charge of the work (FIRST FLOOR)	Sqm	5.76	1271.70
81	Providing Ceramic tiles of size 30x30cms 6mm thick of approved make ,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. and as per the directions of the Engineer-in-charge of the work (SECOND FLOOR)	Sqm	5.78	1273.32
82	Providing skirting, dado, rises of steps with colour glazed tiles 30X60 cms 6mm thick with border of size 30 x 10 cms on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications and as per the directions of the Engineer-in-charge of the work . (GROUND FLOOR)	Sqm	118.82	1602.72

83	Providing skirting, dado, rises of steps with colour glazed tiles 30X60 cms 6mm thick with border of size 30 x 10 cms on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications and as per the directions of the Engineer-in-charge of the work . (FIRST FLOOR)	Sqm	37.59	1604.34
84	Providing skirting, dado, rises of steps with colour glazed tiles 30X60 cms 6mm thick with border of size 30 x 10 cms on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications and as per the directions of the Engineer-in-charge of the work . (SECOND FLOOR)	Sqm	42.38	1605.96
85	Fixing of door frames in an existing opening including embedding frame in floor and walls after cutting masonary for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and downsize granite metal painting two coats of coal tar to sides of frame,making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour, complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Nos	46.00	1138.32
86	Providing Honne wood frames of doors, windows, clerestory windows,ventilators and other frames , wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps),but including cost of materials, labour, HOM of machineries complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Cum	3.68	111083.40
87	Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) (GROUND FLOOR)	Sqm	37.80	5014.44

88	Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) (FIRST FLOOR)	Sqm	11.34	5017.68
89	Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) (SECOND FLOOR)	Sqm	7.56	5020.92
90	Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) (HEADROOM)	Sqm	3.78	5024.16
91	Providing and fixing flush door shutter made out of solid core black board type ,well seasoned chemically treated hard wood battens and internal frame with minimum 45 wide wooden frame all round door shutters covered with cross bounded wooden sheets (core veneer)hot pressed and fastened on both sides of the door using liquidphenol formaldehyde resin as per IS specifiaction 2202 (part -1) 1991.from manufacturere (factory) complete as per specification and as per the directions of the Engineer-in-charge of the work . 30mm thick both side commercial (GROUND FLOOR)	Sqm	20.48	2188.08
92	Providing and fixing flush door shutter made out of solid core black board type ,well seasoned chemically treated hard wood battens and internal frame with minimum 45 wide wooden frame all round door shutters covered with cross bounded wooden sheets (core veneer)hot pressed and fastened on both sides of the door using liquidphenol formaldehyde resin as per IS specifiaction 2202 (part -1) 1991.from manufacturere (factory) complete as per specification and as per the directions of the Engineer-in-charge of the work . 30mm thick both side commercial (FIRST FLOOR)	Sqm	6.30	2191.32

93	Providing and fixing flush door shutter made out of solid core black board type ,well seasoned chemically treated hard wood battens and internal frame with minimum 45 wide wooden frame all round door shutters covered with cross bounded wooden sheets (core veneer)hot pressed and fastened on both sides of the door using liquidphenol formaldehyde resin as per IS specifiaction 2202 (part -1) 1991.from manufacturere (factory) complete as per specification and as per the directions of the Engineer-in-charge of the work . 30mm thick both side commercial (SECOND FLOOR)	Sqm	3.78	2194.56
94	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost ofmaterials, labour, complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Sqm	75.68	90.72
95	Providing and applying water proofing to roof slab ,terraces landscape area, podium etc.. Using modified polyurethane cures (confirming to ASTM C B836-84) to give a tough elastomeric water proof membrane on the surface. the surface shall be cleaned free from dust and other particle before usage. standards and methodology: This compound has a medium viscocity grade with 620% of elongation and shall be done either by roller application /brush application/spray. this will be applied for a thickness of 1.3 mm first layer 0.5mm and 2nd layer 0.8mm. after applying the 2nd layer sand sprinkle shall be done to provide mechanical key as per the directions of the Engineer-in-charge of the work	Sqm	652.29	756.00

96	Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar using aluminium section powdered coated to a minimum of 60- 70 microns with exterior durable pure polyester grade powder of approved quality and as per the directions of the Engineer-in-charge of the work . (GROUND FLOOR)	Sqm	39.53	4515.48

97	Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar - using aluminium section powdered coated to a minimum of 60- 70 microns with exterior durable pure polyester grade powder of approved quality and as per the directions of the Engineer-in-charge of the work . (FIRST FLOOR)	Sqm	58.05	4520.88
98	Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar - using aluminium section powdered coated to a minimum of 60- 70 microns with exterior durable pure polyester grade powder of approved quality and as per the directions of the Engineer-in-charge of the work . (SECOND FLOOR)	Sqm	50.40	4526.28

99	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications and as per the directions of the Engineer-in-charge of the work . (GROUND FLOOR)	Kgs	707.18	84.24
100	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications and as per the directions of the Engineer-in-charge of the work . (FIRST FLOOR)	Kgs	1181.25	89.64
101	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications and as per the directions of the Engineer-in-charge of the work . (SECOND FLOOR)	Kgs	1039.50	95.04
102	Providing and fixing Stainless steel staircase raling as per Chief Architect Drawing No. 11520/ HRSC with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications and as per the directions of the Engineer-in-charge of the work . (GROUND FLOOR & BASEMENT FLOOR)	Sqm	33.76	6638.76

103	Providing and fixing Stainless steel staircase raling as per Chief Architect Drawing No. 11520/ HRSC with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications and as per the directions of the Engineer-in-charge of the work . (FIRST FLOOR)	Sqm	20.42	6644.16
104	Providing and fixing Stainless steel staircase raling as per Chief Architect Drawing No. 11520/ HRSC with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications and as per the directions of the Engineer-in-charge of the work . (SECOND FLOOR)	Sqm	20.42	6649.56
105	Providing and fixing M.S. Gate as per Chief Architect Drawing,using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specification and as per the directions of the Engineer-in-charge of the work	Sqm	12.60	3168.72

106	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Sqm	300.01	88.56
107	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge.	Cum	475.92	80.35
108	Providing 20mm square M.S footrest and fixing in manhole with M 10 cement concrete block of 20x20x10cms, using 20mm and down size metal of size including cost of materials, labour charges, curing complete as per specifications and as per the directions of the Engineer-in-charge of the work	Nos	4.00	265.68
109	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its quality & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction ,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Each BW	1	1882.00
110	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) ,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work 0 to 50 m	Rmtr	50.00	315.18

111	50 to 100 m	Rmtr	50.00	412.00
112	100 to 150 m	Rmtr	50.00	458.35
113	150 to 200 m	Rmtr	50.00	484.10
114	200 to 250 m	Rmtr	50.00	560.32
115	250 to 300 m	Rmtr	50.00	600.49
116	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) ,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Rmtr	70.00	1325.00
117	Providing 250mm dia PVC Pipe 6kg/cm as per specification and direction of the Engineer in Charge of the work	Rmtr	18.00	1100.00
118	Providing and fixing 175mm Borewell Cap with clamp Set H/D,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No.	1	100.00

119	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 10.00 HP 20 stage.with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work 12.50 HP 20 stage	No	1	60400.00
120	Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour, charges HOM of equipments etc., complete and as per the directions of the	Rmtr	260.00	431.00
121	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	540.00	126.70
122	Labour charges for erection as new /repaired submercible pumpset allong with GI pipe (32/50mm) cable (new submercible pumpset if required will be supplied by the department free of cost and released pumpset shoud be handed over to department including transportation (Each lenth =6.00)etc., complete and as per the directions of the Engineer-in-charge of the work	per Length	130.00	88.00
123	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No.	1	302.00

124	Supplying of LTUG cable having aluminium condutor PVC insulated shethed, galvnised steel, wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class.with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	30.00	140.40
125	Labour charges for laying of 1.1 K.V class UG cable (PWD Electrical SR-1999-2000, with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	30.00	10.80
126	Digging or trenching of 0.6 m x 0.5 m wide refilling the trench to the required ground level and consolidating etc., complete as per Civil SR KSRB 1-2 P-7 with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	25.00	85.00
127	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	4.00	345.00
128	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No.	1	280.00
129	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, (PWD Electrical SR-1999-2000, with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No	1	2727.00

130	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc.,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No.	6	180.00
131	Providing and fixing in position **50mm** nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No	1	1579.40
132	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete.with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No	1	227.90
133	SSupplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour etc., complete and as per the directions of the Engineer-in-charge of the work	No	4	104.30
134	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 30 amps triple pole with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No	1	1547.00
135	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Sq.Cm	23400.0	0.33

136	Supplying fully automatic store detta starer unit push button type with suitable wires three contractors one adjustable termal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3pase and wired offter fixing to the wooden board for motor upto 12.50 HP with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Each	1	6583.00
137	Earthwork excavation for pipeline foundation including deporiting or bank up to a depth of 50 mtrs including shiriry and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strructure manhole with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Cum	112.50	188.00
138	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work 75mm Dia 6 KSC	Rmtr	250.00	157.00
139	Refilling the bumont and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrswith all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Cum	112.50	61.00
140	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Each	3	2120.00

141	Concealed Conduit System Supplying heavy gauge PVC conduit pipe ……mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary			
	19/20mm dia 2mm thick(including audio system)	Mtr	200	43
142	25mm dia 2mm thick	Mtr	95	57
143	32mm dia 2.5mm thick	Mtr	20	90
144	Extra for Groove cutting in brick wall/CC floor to the suitable depth for concealing of Conduit/GI pipe and plastering, finishing upto wall surface complete.			
	upto 50mm conduit in brick wall	Mtr	37	21
145	upto 50mm conduit CC floor	Mtr	5	38
146	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, screws at an interval of 300mm …. etc. as required.			
	25mm	Mtr	10	26
147	32mm	Mtr	10	35
148	Supplying PVC/GI flexible conduit pipe…mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and on either end of the pipe terminated completely			
	25mm	Mtr	20	30
149	Supplying And Fixing Metal Fan Box with Round Hook.	No	3	92
150	Point wiring using Copper wire without switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2X1.5Sq.mm Cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block complete for each outlet. GROUP A			
	Short point upto 3Mtr from tapping point to out let via switch box	Point	3	144
151	Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch box	Point	10	215
152	Long point above 6Mtr upto 10Mtr from tapping point to out let via switch box	Point	25	334
153	Two outlet in a row, above 3Mtr upto 6Mtr from tapping point to out let via switches	Point	3	423
154	Three outlet in a row, above 6Mts upto 10Mtr from tapping point to out let via switches box	Point	5	593

155	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.			
	1.5 sqmm	Mtr.	800	18.6
156	2.5 sqmm	Mtr.	100	29.2
157	4 sqmm	Mtr.	300	42.1
158	6 sqmm	Mtr.	75	63.8
159	10 sqmm	Mtr.	180	108
160	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall			
	1-3Way	Each	7	91
161	6Way	Each	3	121
162	8Way	Each	3	140
163	10-12Way	Each	4	159
164	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.			
	1 to 3 Module	Each	7	109
165	6 Module	Each	4	173
166	8 Module	Each	10	200
167	12 Module	Each	4	267
168	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A			
	6Amps one way.	Each	21	63
169	6Amps Two way.	Each	2	87
170	6Amps 3way socket.	Each	13	95
171	Stepped Fan Regulator.	Each	10	286
172	16Amps one way switch	Each	5	114
173	6/16Amps universal socket	Each	5	147
174	TV/Telephone socket	Each	1	82
175	RJ45/ I.O. outlet	Each	1	204
176	Supplying 50mm wooden plug, tapered from 50x50mm to 25x25mm and fixing by using binding wire before concreting a roof slab.	No	300	6.8
177	Supplying and fixing cast Aluminum round or oblong type bulk head fitting with GI wire guard, glass cover with 15Watts 230V CFL lamp.	Each	5	952
178	Supplying CFL mirror light fitting with 1x11W CFL lamp, choke, Perspex cover and completely wired for use on 230V 50Hz AC supply.	Each	2	648

179	LED Indoor Supplying of 2' feet - LED PVC Square Batten ..W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers. 5 years Warranty against any manufacturing defect working under standard electrical condition			
	LED light fighting 4' - 28 watts	Each	40	1774
180	Supply of recess mounted rolling type LED square or round Down light 12 watts with 4/6W GU 10 LED Lamp Rib Fabricated from Die cast aluminum with white powder coated prewired to mains connector with suitable driver & having swiveling unit of aluminum die cast eye ball & LED Lamp position retained by circular wire spring. 5 years Warranty against any manufacturing defect working under standard electrical condition.	No	5	1868
181	Supply of LED Square Recessed Down lighter with 18W System Wattage. Housing shall be with powder coated pressure die cast aluminum alloy with corrosion resistant polyester powder coat & with extended heat sink. Diffuser/cover made of Lexan plastic material. Rated life shall be L70 @ 50000 Hrs. which shall has inbuilt electrical protection like over/under voltage, short circuit, overload, open circuit & miswiring. Driver is on constant current driver output driver @ 0.06A with PF > 0.9 with line voltage @ 220-240V @ 50/60Hz, driver efficiency >	No	2	4945
182	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.			
	100Amps	Each	6	360
183	Supplying of on load change over switches 4 poles, AC-23A Duty, 415V, 50Hz, AC Supply.			
	100-125Amps	Each	1	6426
184	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) FOUR POLE			
	125-160Amps 25kA.	Each	2	7372
185	Supplying and fixing of Shunt trip suitable for MCCB.CBCT.	Each	3	1486
186	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.			
	5-32Amps SP	Each	13	418
187	40-63Amps DP	Each	3	1093
188	40-63Amps TPN	Each	3	1936

189	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.II - Double Door			
	12Way SP &N	Each	3	1622
190	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.III - Double Door			
	4Way TP &N	Each	2	2399
191	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker [ELMCB] 240/450V up to 300mA sensitivity on existing wood/panel board.			
	32-40 Amps 2 pole	Each	3	2623
192	32-40 Amps 4 pole	Each	1	2936
193	63 Amps 4 pole	Each	1	3350
194	Supplying, fixing and wiring earth leakage relay with core balanced current transformer suitable for single phase 50 Hz AC with latest microcontroller based, digital readout of percentage leakage current, programmable delay/auto/manual reset facility suitable to mount on DIN rail/ flush mounting on panel board.	Each	1	7998
195	Supplying, fixing and wiring 0 to 600Volts 96x96mm AC Voltmeter on existing panel/wood board.	Each	1	390
196	Supplying, fixing and wiring 0 to 100amps Direct Reading AC analog type Ammeter	Each	1	452
197	Supplying, fixing and wiring rotary selector switch suitable for Ammeter.	Each	1	172
198	Supplying, fixing and wiring rotary selector switch suitable for Voltmeter.	Each	1	140
199	Supplying of multi function digital meter with three line back light LCD type display for voltage, Current, frequency, Power, power factor, KVA, KWH,KVAR suitable for 3 phase, 4 wire LT network with IP 54 degree of protection and completely wired as required with communication Port and Class 0.5s accuracy.	Each	1	8003
200	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C.	Each	2	442

201	Supplying ..... amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete.			
	100Amps 4x30x6mm Aluminum Strips	Mtr	2	2135
202	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat … with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.			
	40x40x6mm	Mtr	4	263
203	Fabricating supplying and mounting MS box made out … SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.			
	14SWG	sq.cms	5000	0.37
204	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit … The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia	No	2	2727
205	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts.	No	2	4317

206	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. GI strip			
	25x3mm	Mtr	20	77
207	600x600x3mm GI Plate	Each	4	784
208	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.			
	4 core 10 sqmm	Mtr	15	118.8
209	4 core 16 sqmm	Mtr	10	140.4
210	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure			
	6 sqmm to 16 sqmm	Mtr	30	31
211	25 sqmm to 75 sqmm	Mtr	150	34.8
212	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(			
	In soil (ordinary)	Mtr	30	78
213	Asphalt cutting	Mtr	5	117
214	Providing and filling sand in excavated trench to cover already laid UG cable to a depth of 150mm all-round the cable.	Mtr	30	103
215	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only)			
	25mm dia	Each	2	86
216	32mm dia	Each	2	122
217	Supplying and fixing 2mm thick perforated cable tray with powder coated paint on existing MS angle support using necessary GI bolts/nuts and washer or welding as required.			
	300x50mm	Mtr	5	547
218	Supply and laying double walled corrugated (DWC) HDPE Pipe including all necessary connecting Sockets/Couplings/Tees/Bends/End-caps of same materials in existing trench as per IS 14930 part -II suitable for drawing underground cables.			
	40mm OD / 32mm ID	Mtr	50	98
219	50mm OD / 38mm ID	Mtr	40	151
220	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.			
	1.5 sqmm	Each	30	2
221	2.5 sqmm	Each	20	3.12
222	4 sqmm	Each	10	6.25
223	6 sqmm	Each	8	6.25
224	10 sqmm	Each	15	7.65
225	16 sqmm	Each	4	11.31

226	35 sqmm Long Barrel	Each	4	35.72
227	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire			
	8 SWG	Mtr	50	19.5
228	Supplying and drawing PVC flexible one pair telephone unarmoured tinned copper cable.			
	2Pair	Rmt.	50	13
229	Constructing brick masonry inspection chamber 600x600mm and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non- modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38kg (weight of cover 23kg and weight of frame 15kg) R.C.C top slab with cement concrete M 15 with 20mm and down size granite metal, foundation concrete M5 with 40mm and down size granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, HOM of machineries complete as per specifications. Specification no. KBS	Nos	2	9,670.32
230	Providing and fixing unplasticised PVC pipes 10.00 kg/sq.cm working pressure chemp plast/wavin or equivalent make with pipe fittings, clips, making good the floor , including cost of all materials, labour charges, HOM of equipment and testing complete as per specifications.			
	do- with 90mm outer dia	m	20	519.48
231	do- with 110mm outer dia	m	13	743.04
232	do- with 160mm outer dia	m	9	1,566.00
233	Providing and fixing white vitreous china clay, **water closet europeon type** (pedestal type, p-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level,P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets , 40mm diameter flush pipe fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design,painting of fittings and brackets, cutting and making good the wall and floor wherever required , including cost of materials, labour complete as per specifications. Specification no.KBS 11	Each	19	5,540.40

234	Providing and fixing white vitreous china clay,flat back or half stall **urinal basin** of size 580x380x350mm in the range of two with 7.5 litres P.V.C automatic flushing cistern, C.I / M.S brackets ,standard flush pipe and C.P brass spreaders with brass unions and G.I clamps, C.I trap with outlet grating and other couplings in C.P brass, painting of fittings and brackets, cutting and making good the wall and floor wherever required , including cost of materials, labour complete as per specifications.	Unit	4	8,980.20
235	Providing and fixing white vitreous china clay,flat back **wash basin** size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets ,32mm C.P brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required , including cost of materials, labour complete as per specifications.	Unit	13	4,196.88
236	Providing and fixing C.P brass towel rail 740mm length, 20mm dia with C.P brackets, fixed to wooden cleats with C.P brass screws including cost of materials, labour complete as per specifications.	Unit	2	845.64
237	Providing wash basin brackets of approved 1st qyuality and make confirming to ISI specifications and fixing for low down cistern as directed. Rate includes cost of materials and conveyance to work spot.	Pair	13	246.24
238	Providing pedestal for wash basin of approved 1st qyuality and make confirming to ISI specifications and fixing for low down cistern as directed. Rate includes cost of materials and conveyance to work spot.	Each	13	945.00
239	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia.	Each	26	172.80
240	Providing **stoneware gully trap** of approved quality and make fixing in M-15 and plastering with CM 1:3 wherever necessary. (Rate includes cost of all materials, fixtures and lead). 15x15cms	Each	4	291.60
241	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials,labour charges, HOM of acquirements and testing complete as per specifications.For Rain water pipe. 110 mm dia	m	10	444.96
242	do- 160mm dia	m	20	896.40
243	Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.	Each	2	262.44

244	Providing and fixing in position brass stop cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.	Each	18	172.80
245	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.	Each	2	441.72
246	do- 25mm dia nominal bore	Each	1	637.20
247	–do– 32mm nominal bore	Each	3	1,026.00
248	–do– 40mm nominal bore	Each	2	1,371.60
249	–do– 65mm nominal bore	Each	1	2,764.80
250	Providing and fixing unplasticised PVC connection pipe with brass union 15mm nominal bore 300 mm length of PVC connection including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.	Set	12	284.04
251	Providing and fixing in position 40mm nominal bore non return valve vertical type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.	Nos	2	1,549.80
252	do- 40mm dia	m	20	284.04
253	do- 63mm dia	m	5	375.84
254	Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications. (For 1000 Litre capacity) as per IS 12701 1996.	Each	1	9,144.36
255	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for not and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.,)			
	15mm nominal OD pipes	m	2	140.40
256	20mm nominal OD pipes	m	15	226.80
257	25mm nominal OD pipes	m	10	270.00
258	32mm nominal OD pipes	m	20	334.80